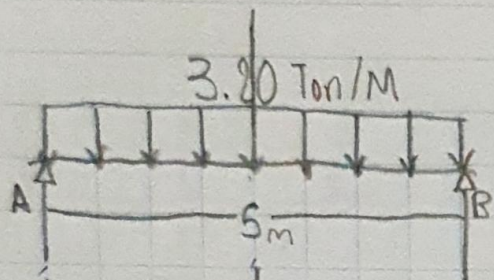




**LUIS EDUARDO GUILLÉN MELGAR**  
**UDS CAMPUS COMITÁN**

**4° A**  
**RESISTENCIA DE MATERIALES**  
**PEDRO GARCÍA**  
**EJERCICIO UNIDAD 4**



$$R_A = R_B = \frac{qL}{2}$$

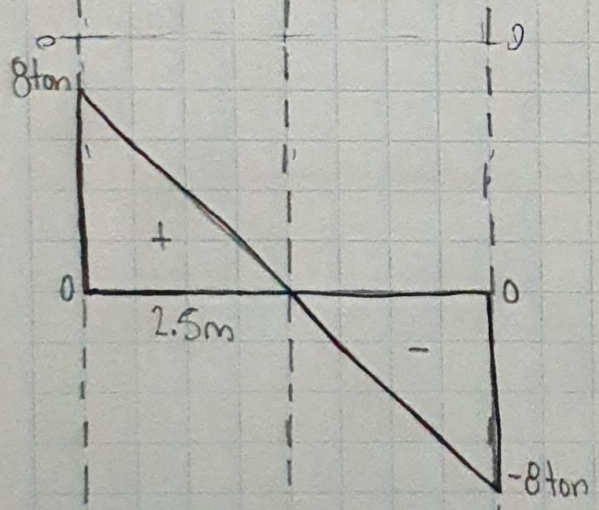
$$R_A = R_B = 8 \text{ ton}$$

$$l_0 = L/2 = 5/2 = 2.5 \text{ m}$$

$$M_{\text{MAX}} = \frac{1}{8} q l^2$$

$$F \cdot L = 3.20 \cdot 5 = 16 \text{ ton}$$

$$M_{\text{MAX}} = \underline{\underline{10 \text{ TM}}}$$



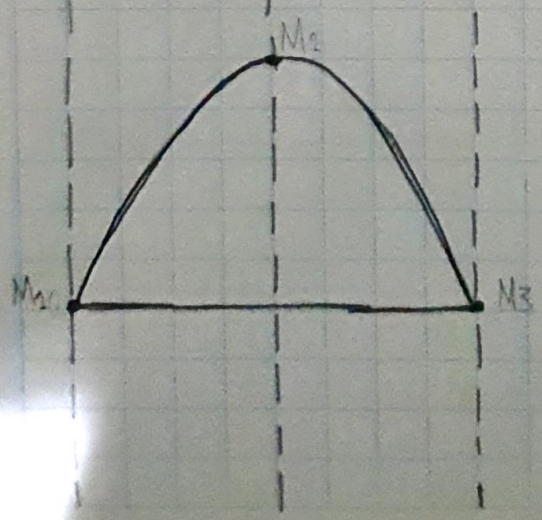
$$M_1 = 0$$

$$M_2 = 0 + \left( \frac{8 \cdot 2.5}{2} \right)$$

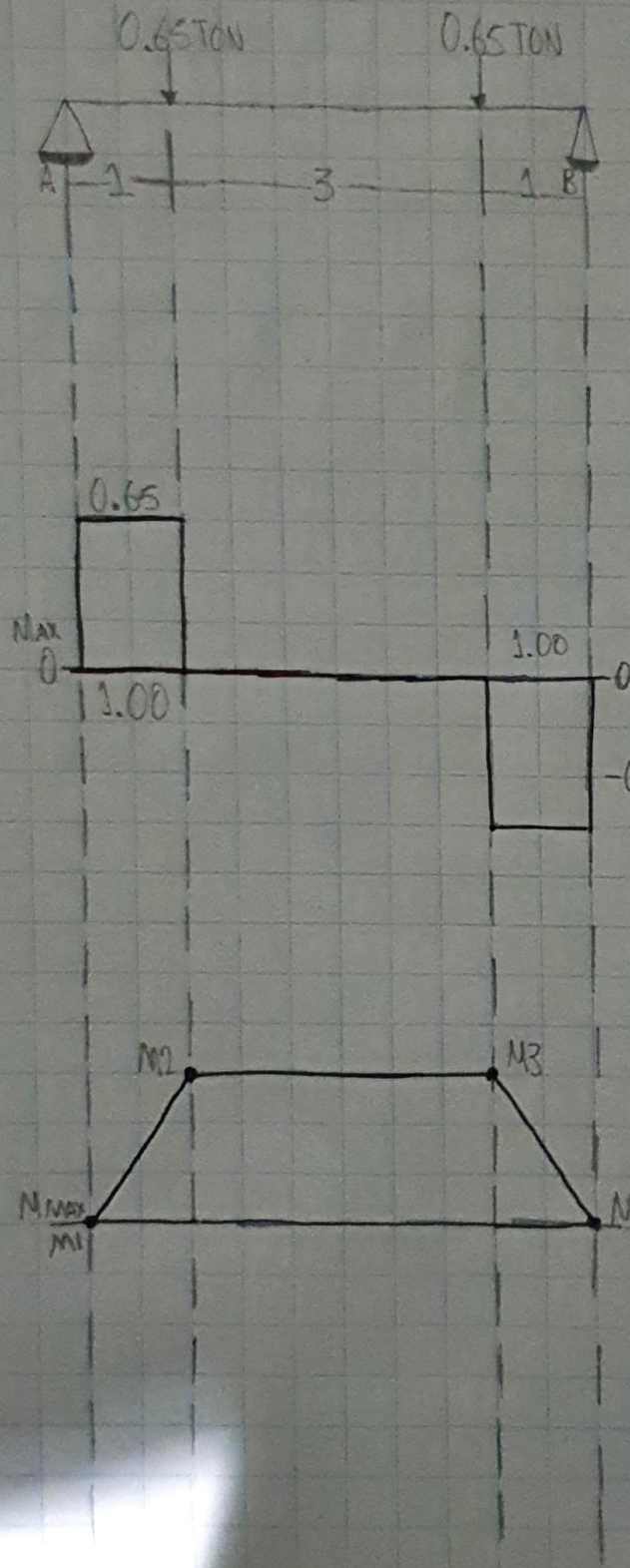
$$M_2 = 10$$

$$M_3 = 10 + \left( \frac{2.5 \cdot 8 \text{ ton}}{2} \right)$$

$$M_3 = 0$$







$$R_A = R_B = F = \underline{\underline{0.65 \text{ TON}}}$$

$$M = F \cdot A$$

$$M_1 = 0$$

$$M_2 = (0.65)(0.65 + 1.00)$$

$$M_2 = (0.65)(0.65) = 4.225$$

$$M_3 = 0.4225 (-0.65 \cdot 0.65)$$

$$M_3 = 0.4225$$

$$M_4 = 0$$

$$M_{\text{MAX}} = F \cdot A = 0.4225$$